

THE Summer Research Training Institute for American Indian and Alaska Native Health Professionals

July & August 2004
Portland, OR

Preliminary Notice

Who Should Apply?

Our curriculum is designed to meet the needs of professionals who work in diverse areas of American Indian and Alaska Native health...from administrators to community health workers, physicians, nurses, researchers, program managers...almost anyone who works in Indian health care and who wants to take advantage of new skill-building opportunities. Because our courses emphasize research skills and program design and implementation, those professionals who seek training opportunities related to research will find relevant courses in this program. Applications from American Indian and Alaska Native health professionals are strongly encouraged, although we seek applications from others who are interested in Native health issues.

Tuition

Scholarships are available for American Indian and Alaska Native trainees. We will provide scholarship application forms as they are requested.

Sponsored by

The Indian Health Service, Oregon Health & Science University, and The Northwest Portland Area Indian Health Board.

Registration

deadline is May 30th

For more information contact:

Esther Dunn

Oregon Health & Science University

3181 SW Sam Jackson Park Road, CB-669

Tel: 503-494-2947

Fax: 503-494-7536

E-Mail: dunne@ohsu.edu

Course Descriptions and Schedules

Introduction to Epidemiology

This course focuses on principles of epidemiology, measures of disease frequency, measures of association, and causal inference. In addition, this course provides an overview of surveys, case-control studies, and cohort studies.

Instructor: Yvonne Michael, ScD

Textbook: Gordis, *Epidemiology*

Dates: July 12-16

Time 9:00 AM-12 noon

Tuition: \$300

Program Evaluation

This intensive course will introduce participants to fundamental principles of program evaluation. The course will include discussion of a variety of theory-based evaluation designs and methods. Evaluation focusing on processes, short-term impact, and outcomes associated with cancer-related health promotion and health education programs will be emphasized. Specific attention will be focused on the practical application of evaluation methods.

Instructor: Mark Dignan, PhD

Dates: July 12-16

Time: 1:00 PM-5:00 PM

Tuition: \$300

Infectious Disease Prevention and Control

This epidemiology course will stress hands-on exercises as students learn the principles of conducting field and laboratory-based investigations of different infections. Students will go through exercises that illustrate methods of outbreak investigations using case-control approaches, and will learn about other study designs that are relevant to this field. Most of the sessions will involve case-based or problem-based learning. Students will conduct a hypothetical outbreak investigation and will be asked to write a brief report.

Instructor: James Cheek, MD, MPH

Dates: July 12-15

Time: 6:00 PM-8:00PM

Tuition: \$300

Epidemiology Methods

This course focuses on systematic errors that are important to study design, implementation, and to analysis of results of the study. Topics include selection bias, information bias, and confounding. The content will further consider different epidemiologic study designs.

Textbook: Hennekens and Buring, *Epidemiology in Medicine*

Instructor: Tom Becker, MD

Dates: July 19-23

Time: 9:00 AM-12 noon

Tuition: \$300

Database management using SPSS and EpiInfo

This course examines data management and analysis from the perspective of epidemiological research. Topics covered include questionnaire data entry, verification and data cleaning, backup and archiving, developing a database for secondary analysis. The fundamental principles of statistical analysis will be presented in a computer classroom with exercises that use SPSS, a menu-driven statistical package, and the CDC freeware, EpiInfo. Trainees will learn concepts of descriptive statistics, graphical presentation, table creation, calculation of odds ratios, confidence intervals, and statistical power.

Instructors: William Lambert, PhD and Jodi Lapidus, PhD

Dates: July 19-23

Time: 1:00 PM-5:00 PM

Tuition: \$300



Injury Prevention

Injury Prevention

This course is designed to give the student an introduction to injury research and injury epidemiology. This course will cover topics on injury surveillance, existing injury data sets, and injury study design including randomized controlled trials, cohort, and case-control studies. This course will be useful to those conducting injury research as well as those who need to evaluate injury research studies.

Instructor: Melissa Schiff, MD, MPH

Textbook: Rivara FP, et al. *Injury Control: A Guide to Research and Program Evaluation*

Dates: July 19-23

Time: 6:00 PM-8:00 PM

Tuition: \$300

Research Design and Grant Development

This course is designed to provide an overview of the grant writing process, and will include small group tutorials focused on each student designing a study that he or she could implement in their own jobs. The didactic part of the class will examine the major components of NIH and IHS grants. The small group tutorials will involve substantial 'hands on' activities on the parts of the students, as they will discuss their proposals and write sections of a grant application, following appropriate guidelines.

Textbook: Hulley et al, *Designing Clinical Research*

Instructors: Tom Becker, MD, Bill Lambert, PhD

Dates: July 26-30

Time: 9:00 AM-12 noon

Tuition: \$300

Questionnaire Design

This session targets participants engaged in designing questionnaires as a part of their ongoing or planned research activity. The session will review the strengths and limitations of questionnaires and encourage participants to apply this knowledge in improving the design of their own instruments. The session will also discuss practical issues for considering selecting particular survey methods and how this selection influences the nature of the questionnaire instrument used. And where possible, participants will be asked to provide drafts of their questionnaires to gain insights into how questionnaires can be developed or improved.

Instructor: Jennie Joe, PhD, MPH

Dates: July 26-28

Time: 1:00 PM-5:00 PM

Tuition: \$150

Human Subjects Protection

The goal of this short course is to enable researchers to recognize and appropriately address legal, regulatory, and ethical issues in all clinical, epidemiological and community based research, with special attention to research involving Native populations. This goal is accomplished by (1) teaching basic concepts in law, federal regulation, study design, and ethics; (2) reviewing common problems encountered in human subjects protocols and informed consent forms to demonstrate how to identify and remedy deficiencies; (3) reviewing the roles and responsibilities of institutional review boards, investigators, sponsors, study coordinators, and all others involved in the conduct of human subjects research; (4) reviewing the obligations of researchers in relation to initial and continuing reviews, reporting of adverse events, reporting changes in approved research, and consenting and monitoring human subjects as required by federal regulations; and (5) focusing on the need to develop policies and procedure to best safeguard and protect all Native subjects and communities.

Instructor: Francine Romero, PhD, MPH

Dates: July 29-30

Time: 1:00 PM-5:00 PM

Tuition: \$150

Diabetes Prevention and Control

Diabetes is a huge public health concern in Indian country. This course will explore surveillance methods, diagnostic strategies, novel management approaches, and community-based control strategies from an epidemiologic perspective. Experts in the field will lead trainees through problem-based learning sessions and will share their own experiences in conducting diabetes projects among tribal people. Various study designs will be considered as potentially relevant to diabetes-related topics. Students will be asked to design a short protocol related to diabetes epidemiology or control in tribal groups.

Instructor: TBA

Dates: July 26-30

Time: 6:00 PM-8:00 PM

Tuition: \$300

Q-Man Query in RPMS

This hands-on, interactive course provides a solid overview and detailed instructions for using the database extraction tools to retrieve data from the PCC Clinical Repository. The Query Manager (Q-Man) Module is a highly powerful and sophisticated Ad hoc query tool, which enables the User to define ad hoc search criteria and generate demographic/clinical reports. Upon course completion, the User will have a working familiarity with Q-Man terminology and methods of database extraction capabilities; have a better understanding of the PCC definitions; be able to select and generate appropriate reports; be able to formulate and run ad hoc queries; and create registers for high risk patients.

Instructor: Mary Brickell

Dates: August 2-6

Time: 9:00 AM-12 noon

Tuition: \$300

Data Linkages

This interactive course provides an overview of data linkage techniques, examples of the use of data linkages in public health and instruction in conducting probabilistic linkages. Upon course completion, the User will have a solid foundation in the application of data linkage techniques, including strategies of choosing blocking and matching variables, and will be able to conduct data linkages between 2 databases or unduplication of a single database using readily available software.

Instructor: David Espey, MD

Dates: August 2-6

Time: 1:00 PM-5:00 PM

Tuition: \$300

Grant Budget Management Using MS Excel

This detailed how-to course on Microsoft Excel describes the features and functionality of the program. In addition, this course will combine lecture and hands-on experience to deliver what you need to know about Microsoft Excel to create grant budgets and keep track of them.

Instructor: Deb Howes, MEd

Dates: August 2-3

Time: 6:00 PM-8:00 PM

Tuition: \$150

Desktop Publishing

This course teaches you to produce documents (newsletters, brochures, fliers, etc...) in a professional and effective manner. You will learn how to use Adobe PageMaker to communicate your ideas to your audience. The skills taught in this course are basic Adobe PageMaker and design concepts and are taught in an easy to understand way.

Instructor: Deb Howes, MEd

Dates: August 4-6

Time: 6:00 PM-8:00 PM

Tuition: \$150